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REPORT

50X1-HUM

CD NO.

COUNTRY USSR

DATE OF
INFORMATION 1951

SUBJECT Economic - Electric power

DATE DIST. 29 Feb 1952

HOW
PUBLISHED Daily newspapers; weekly and monthly
periodicals

NO. OF PAGES 2

WHERE
PUBLISHED USSR

DATE
PUBLISHED Apr - Oct 1951

LANGUAGE Russian

SUPPLEMENT TO
REPORT NO.

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REPORT USSR ELECTRIC POWER CONSUMPTION DATA

[Numbers in parentheses refer to appended sources.]

This report gives the amount of electric power required for various agri-
cultural and industrial operations.

One kilowatt-hour can replace eight persons of physical labor in agricul-
ture (1); it can enable electric machines to milk 45 cows, incubate 30 chickens,
or clip the wool off 15 sheep (2). It can lift a ton to a height of 367 meters,
or produce 75 kilograms of coal, or roll 50 kilograms of metal (3). About 15
kilowatt-hours are required to mine one ton of coal, up to 28 to produce one ton
of crude oil, about 150 to manufacture one ton of iron or steel, 1,500 to build
one automobile, and 5,000 to produce a tractor (4).

The production of one ton of cement requires 2.2 man-days of labor, 85 kilo-
watt-hours of electric power, 227 kilograms of standard fuel, and a capital invest-
ment of 300 rubles.

The requirements for manufacturing quantities of red bricks, fire bricks, and
cinder blocks equivalent to 1,000 standard bricks are as follows:

	<u>Red Bricks</u>	<u>Fire Bricks</u>	<u>Cinder Blocks</u>
Labor (man-days)	1.71	0.88	1.0
Electric power (kilowatt-hours)	74.5	41.7	35.4
Standard fuel (kilograms)	295.5	136.0	85.5
Capital investment (rubles)	842.00	430.0	231.0

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The figures given for cinder blocks do not include the requirements for producing the 257 kilograms of cement necessary for the manufacture of a quantity of cinder blocks equivalent to 1,000 standard bricks. The figures must be increased by 0.6 man-days for labor, by 21.8 kilowatt-hours for electric power, by 4 kilograms for standard fuel, and by 77 rubles for capital investment. The production of a quantity of cinder blocks equivalent to 1,000 standard bricks therefore requires 1.6 man-days of labor, 57.2 kilowatt-hours of electric power, 143.5 kilograms of standard fuel, and a capital investment of 308 rubles.(5)

The cost of one kilowatt-hour is 0.15 ruble, according to an article dealing with the importance of economizing power by maintaining the condensers in electric power lines in good order.(6)

SOURCES

1. Moscow, Znaniye Sila, No 9, Sep 51
2. Slavyane, No 4, Apr 51
3. Leningradskaya Pravda, 12 Aug 51
4. Moscow, Ogonek, No 42, Oct 51
5. Moscow, Gorodskoye Khozyaystvo Moskvy, No 7, Jul 51
6. Promyshlennaya Energetika, No 6, Jun 51

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